

Practical – 1

AIM1: Shyam wants to know age of his grandfather who was born on 5th June, 1947. Kindly help shyam to know how old is his grandfather? Also, print the calendar for the month and year on which shyam's grandfather was born.

Code:

```
import datetime

birth_date = datetime.date(1947, 6, 5)

today_date = datetime.date.today()

age = today_date.year - birth_date.year - ((today_date.month, today_date.day) < (birth_date.month,
birth_date.day))

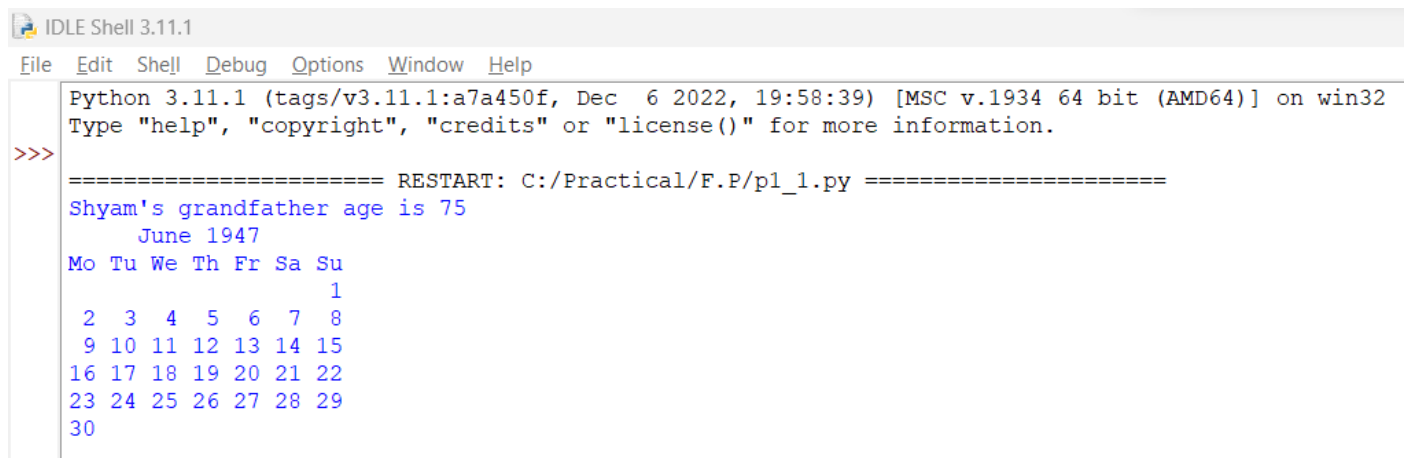
print("Shyam's grandfather age is", age)

import calendar

cal = calendar.month(1947, 6)

print(cal)
```

Output:



```
IDLE Shell 3.11.1
File Edit Shell Debug Options Window Help
Python 3.11.1 (tags/v3.11.1:a7a450f, Dec 6 2022, 19:58:39) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Practical/F.P/pl_1.py =====
Shyam's grandfather age is 75
June 1947
Mo Tu We Th Fr Sa Su
                1
 2  3  4  5  6  7  8
 9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30
```

AIM2: In an online game competition, a registration form has to be filled up by user. Kindly help user to perform following operation while submitting form.

Code:

```
name = input("Please enter your Name:-")
age = input("Please enter your Age:-")
Class = input("Please enter your Class:-")
branch = input("Please enter your Branch:-")

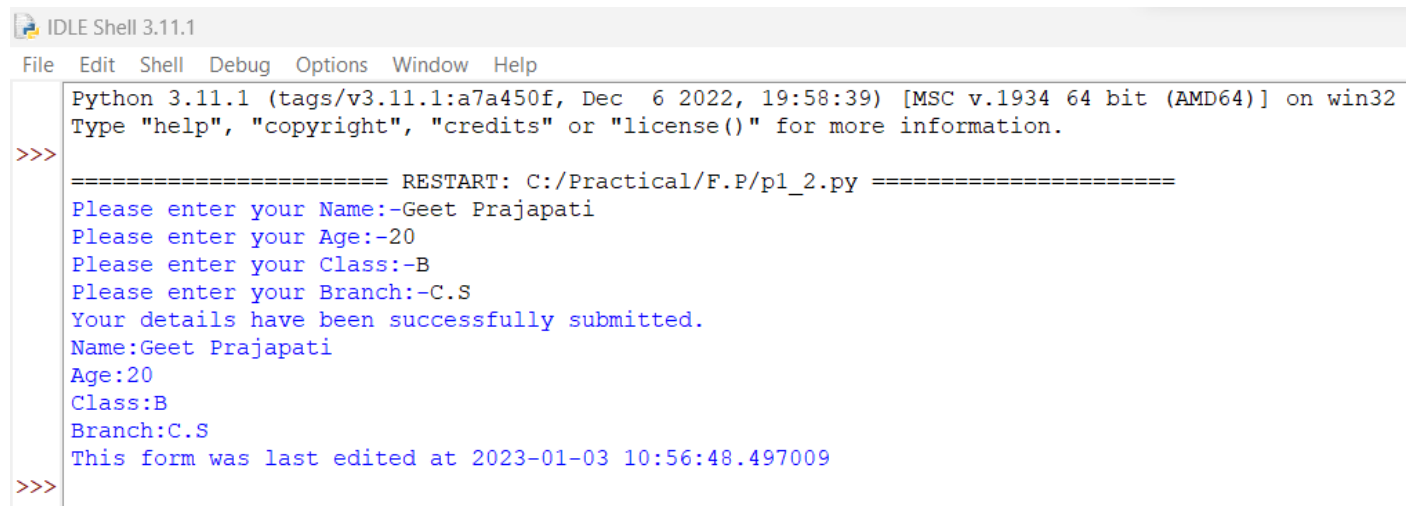
print("Your details have been successfully submitted.\nName:{}\nAge:{}\n Class:{}\nBranch:{}".format(
name, age, Class, branch))

import datetime

now = datetime.datetime.now()

print("This form was last edited at {}".format(now))
```

Output:



```
IDLE Shell 3.11.1
File Edit Shell Debug Options Window Help
Python 3.11.1 (tags/v3.11.1:a7a450f, Dec 6 2022, 19:58:39) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Practical/F.P/p1_2.py =====
Please enter your Name:-Geet Prajapati
Please enter your Age:-20
Please enter your Class:-B
Please enter your Branch:-C.S
Your details have been successfully submitted.
Name:Geet Prajapati
Age:20
Class:B
Branch:C.S
This form was last edited at 2023-01-03 10:56:48.497009
>>>
```

AIM3: Given a number game one needs to generate any random number; iterate through the all digits present and print the sum of all digits.

Code:

```
import random

n = random.randint(0, 1000)

print("Enter a number between 0 and 1000:-",n)

sum = 0

while(n > 0):

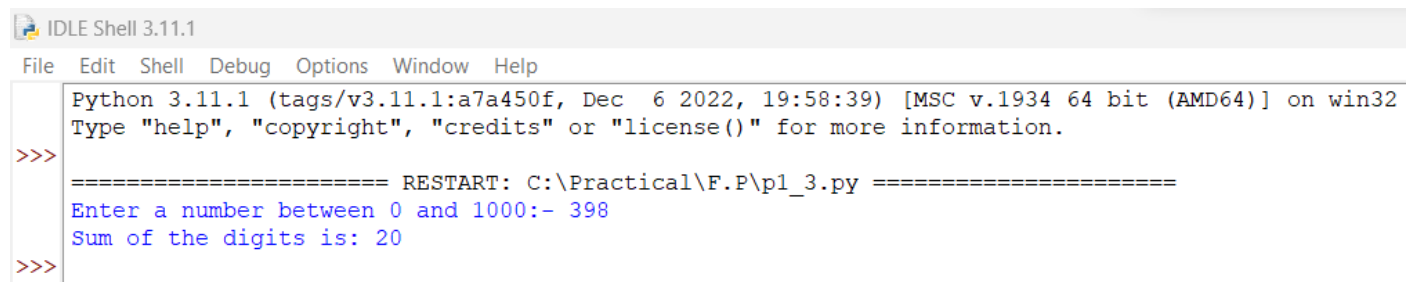
    digit = n % 10

    sum = sum + digit

    n = n // 10

print("Sum of the digits is:", sum)
```

Output:



```
IDLE Shell 3.11.1
File Edit Shell Debug Options Window Help
Python 3.11.1 (tags/v3.11.1:a7a450f, Dec 6 2022, 19:58:39) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Practical\F.P\p1_3.py =====
Enter a number between 0 and 1000:- 398
Sum of the digits is: 20
>>>
```